



PART# 146000VCG4 LS GEN IV BILLET VALLEY COVER INSTALLATION INSTRUCTIONS

Thank you for choosing **FAST**. We are proud to be part of the **Edelbrock Group** family of performance brands and appreciate *your trust* in our products. **FAST** delivers advanced electronic fuel management (EFI) solutions designed for precision and performance.

This manual provides the *necessary information* for the proper installation and use of your product. **Please read this manual completely** before beginning installation to *ensure safe and correct operation*.

Most installations can be completed using standard tools and accepted procedures; however, a basic level of mechanical knowledge is recommended. If you are not comfortable performing this installation, it is strongly recommended that a qualified professional complete the work.

BEFORE YOU BEGIN

- ☐ **Verify this product is compatible with your application**
- ☐ **Ensure all required tools and parts are available**
- ☐ **Read all instructions before starting installation**
- ☐ **Work on a clean surface and keep components free of debris**

IMPORTANT NOTICE

Proper installation is the responsibility of the installer. Failure to follow instructions may result in poor performance, engine or vehicle damage, and may void the warranty.

PRODUCT DESCRIPTION

This billet valley cover is designed to fit all **Gen IV LS engines** equipped *with or without Displacement on Demand (DOD)*. Each **AFM** oil passage is sealed with *high-grade O-ring gaskets* to prevent leaks and maintain proper oil pressure while disabling the **DOD system**.

This kit includes stainless steel mounting hardware and O-ring seals to ensure a secure and reliable installation.

KIT CONTENTS

QTY.	DESCRIPTION
1	Billet Aluminum Valley Cover Plate
1	Large Perimeter O-Ring
10	O-Ring Seals (DOD and Adapter Block)
1	Oil Adapter Block
2	Oil Adapter Block Bolts
11	Valley Cover Mounting Bolts

INSTALLATION

1. **Ensure that all mating surfaces on the engine block and cylinder heads are clean and free of oil, debris, or old gasket material.** Use alcohol or lacquer thinner with a lint-free cloth to clean all surfaces thoroughly.
2. **Install the Large Perimeter O-Ring** into the groove around the valley cover.
3. **Install the O-Ring Seals** into the grooves in the center of the valley cover. **Verify that each O-Ring is properly seated.**
4. **Position the Valley Cover** onto the engine block.
5. **Install** the supplied **mounting bolts** and hand-tighten.
6. **Torque all bolts to 18 ft-lbs**, starting from the center and working outward evenly.

SUPPORT

If you have any questions or require technical assistance, please contact FAST Technical Support:

1-800-999-0853

Hours: Monday–Friday, 7:00 AM – 5:00 PM (CST)

www.fuelairspark.com

LIMITED WARRANTY & LEGAL INFORMATION

FAST warrants that all products are free from defects in material and workmanship, and against excessive wear, for a period of **one (1) year from the date of original purchase**. This limited warranty applies **only to the original purchaser**.

FAST's obligation under this warranty is limited to the repair or replacement of the product, at its discretion.

To submit a warranty claim, the **product must be returned within one (1) year from the date of purchase** to the address listed in the Contact & Support section. All returns must be shipped freight prepaid. Products determined to be covered under warranty will be returned freight collect.

INSTALLER RESPONSIBILITY

It is the responsibility of the installer to verify that all components are correct and suitable for the intended application prior to installation. **FAST** assumes no liability for errors in component selection, tolerances, or installation.

WARRANTY EXCLUSIONS

This limited warranty does not apply to the following:

- ***Products used in racing or competition applications***
- ***Products used in applications other than those recommended***
- ***Products that have been physically altered***
- ***Products that have been abused or misused***
- ***Improperly installed or improperly maintained products***
- ***Products not used in conjunction with proper or compatible components***

LIMITATION OF LIABILITY

There are no implied warranties of merchantability or fitness for a particular purpose. There are no warranties that extend beyond those described in this document.

To the maximum extent permitted by law, **FAST shall not be liable for incidental or consequential damages, including but not limited to property damage or personal injury.**

Where required by law, **any implied warranties are limited to a period of one (1) year from the date of original purchase.**

LEGAL RIGHTS

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

CALIFORNIA PROPOSITION 65 WARNING

This product may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.



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